

STATE OF CALIFORNIA

Bid Specification

Standard Size Flight Suits

NOTE: A COPY OF THE COMPANY'S 'CERTIFICATE OF REGISTRATION' CAN BE REQUIRED FOR THE PURCHASING OF GARMENTS. THIS REGISTRATION IS OBTAINED FROM THE CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS, DIVISION OF LABOR STANDARDS ENFORCEMENT, LICENSING AND REGISTRATION

1.0 SCOPE

This specification covers the requirements for a zipper front, fire resistant, standard size flight suit. These flight suits will be used by pilots for protection against hazards that may be encountered during emergencies and during regular patrol in aircraft.

2.0 SPECIFICATIONS AND STANDARDS

Specifications and standards referenced in this document in effect on the opening of the Invitation for Bid form a part of this specification where referenced. All fire resistant Nomex IIIA* flight suits shall meet or exceed the requirements of this specification.

3.0 REQUIREMENTS

3.1 Acceptable Brand:

Flight Suits, Item 5103, Standard Sizes, Professional Uniform, long sleeve, 6.5 ounce NOMEX IIIA* with listed modifications. All features furnished normally as standard, unless superseded by the requirements of this bid, shall be provided.

The State of California specification will only outline the requirements, which are being replaced, modified, deleted, or added.

3.2 Materials:

3.2.1 Color:

The overall color of the fire resistant Nomex IIIA* flight suit shall be khaki. There shall be no noticeable difference in color of flight suits from different die lots when placed side by side.

3.2.2 Fabric

The uniforms shall be made from machine washable Nomex IIIA* fabric that can be laundered with no special precautions. The fiber content shall be 93% Nomex/5% Kevlar/2% P140, commercially known as Nomex IIIA.

Finished Weight: 6.0 - 6.8 (+ or – 5%) ounces/square yard
Test Method: ASTM D3776

Flame Resistance:

The flight suit shall meet the requirements of CFR Title 8, Article 10.1, Section

*Nomex IIIA –

Nomex Reg. T.M. of Dupont for High Temperature Heat Resistant Aramid Fiber

Kevlar – Reg. T.M. of Dupont for extremely High Strength Aramid Fiber.

P 140 – Reg. T.M. of Dupont for Static Dissipative Fiber

3406 (C)(1), Flame Resistance. When tested in accordance with Federal Standard 191, Method 5903.2, Flame Resistance of Cloth, Vertical (Standard small scale test), the test results shall not exceed the following limits:

- (a) 2.0 seconds after-flame
- (b) 8.0 seconds after-glow
- (c) 4.0 inches average char-length

Ignition of the material shall not produce any melting and dripping of molten or flaming material. It is specifically required that upon exposure to flaming ignition, or to heat sufficient to char the fabric, the material will not adhere to the skin of the wearer so as to cause or contribute to the severity of burns.

The Department of General Services-Procurement Division may request documentation to verify the fabric physical characteristics required by the specification. Appropriate documentation shall include reports from the fabric mill, which state testing results and methods used. It shall be the responsibility of the bidder to provide any evidence required to confirm compliance to the specification at no additional cost to the state.

3.3 Badge Tab:

In order to accommodate a badge for the flight suits, a badge tab will be required on the left side of the flight suit, which will require movement of the Velcro hook and pile nameplate holder from the left to the right chest area. The badge tab minimum 1 inch x 2 ½ inches made of self-fabric shall be sewn to the left chest two inches above the chest pocket. It shall have two-¼ inch brass eyelet openings spaced 1 ¼ inch apart (center to center). It shall be sewn to the front using a seam type LSd and stitch type 301.

3.4 Nameplate Holder: A loop type fastener tape 2 X 4 inches in size shall be sewn to the right front of the suit with a single row of stitch type 301. The nameplate holder will be sewn directly above the right chest pocket.

3.5 Optional Pen Pocket Placement:

An option to have the pen pocket placed on the opposite side of the flight suit to accommodate left-handed officers shall be provided. The ordering Agency will specify a need for this optional pen pocket placement at time of order.

3.6 Labeling:

The flight suit shall be labeled in accordance with the Federal Trade Commission, Rules and Regulations, Textile Fiber Products Identification Act, including, but not limited to size, material content, cleaning instructions and manufacturer's identification.

3.7 Patches:

The bidder shall sew on all unit patches and chevrons furnished by the Agency at the time that the order is placed. This shall be completed at no additional charge to the Agency. The patches shall be sewn with a single row of stitch type 301 on the sleeve. To accommodate the patch placement, flaps on the sleeve pocket will not be required.

**Nomex IIIA –*

Nomex Reg. T.M. of Dupont for High Temperature Heat Resistant Aramid Fiber

Kevlar – Reg. T.M. of Dupont for extremely High Strength Aramid Fiber.

P 140 – Reg. T.M. of Dupont for Static Dissipative Fiber

3.8 Workmanship:

All workmanship shall conform to the best trade practices. The flight suits shall be clean and free from any defects and all avoidable imperfections from the manufacturing process affecting appearance, serviceability or safety.

The apparent silence of this specification as to any detail or the apparent omission of any detail shall be regarded as meaning that only the best commercial practice is to prevail and that only materials and workmanship of first quality are to be used.

3.8 Warranty:

The bidder shall warranty the flight suit workmanship, stitching and zippers for the life of the garment.

4.0 QUALITY ASSURANCE PROVISIONS

4.1 Inspection:

The flight suits will be sampled and inspected for compliance to this specification as deemed necessary. Sampling and inspection by attributes will be in accordance with Military ANSI-ASQC Z1.4, Sampling Procedures and Tables for Inspection by Attributes (latest revision). An inspection lot is defined as one delivery to one agency at one time.

There shall be no noticeable difference in color of flight suits when placed side by side. The receiving agencies shall determine color match and accept or reject the delivery.

5.0 PREPARATION FOR DELIVERY

5.1 Packaging:

The flight suits shall be folded with the sleeves inside and the size label easily readable without unfolding and shall be individually wrapped, with a package label on top, in a polyethylene type bag or comparable packaging with recycled content. The packaging label shall be easily readable and indicate the model number, size, and lot number.

Comparable packaging consistent with current industry practice will be considered. Bidders are encouraged to offer product packaging with recycled content.

**Nomex IIIA –*

Nomex Reg. T.M. of Dupont for High Temperature Heat Resistant Aramid Fiber

Kevlar – Reg. T.M. of Dupont for extremely High Strength Aramid Fiber.

P 140 – Reg. T.M. of Dupont for Static Dissipative Fiber